



Cisco Unified Communications with CME, CUE, SRST: Deployment Scenarios, Management and Security

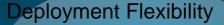


Agenda:

- Cisco Unified Communications Manager Express
- Cisco Unity Express
- Survivable Remote Site Telephony
- Security of CUCME
- Management Tools

Integrated UC Architecture on the ISR/ISR G2

Only Cisco UC uses the full power of the Network.



Superior Voice Quality

Lower OpEx, Better ROI, Green

More Efficient Use of IT Resources

Survivability, Disaster Recovery

Easier Migration to IP

UC as a Network Service

CDP • Auto QoS • VLANs • RSVP • POE

• Priority Queuing • SRST • E-911

Protocol Translation • Codecs • DSPs

Integrated Applications on ISRs







Cisco Unified Communications Manager Express Simple, Affordable All-In-One Communications Unified Communications solution for 450 users or less

- Unified Communications solution for 450 users or less based on Cisco Integrated Services Routers
- Full-featured solution that meets the needs of small and medium businesses, enterprise branch office, and service-provider-managed-service
- Provides robust networking across sites using H.323 or SIP
- Voice mail, auto-attendant and IVR capabilities with integrated Cisco Unity Express or Unified Messaging with Cisco Unity and Cisco Unity Connection
- Configure as PBX, Key Switch or hybrid mode for business continuity
- Options include: Video Telephony, Tele-workers, Cisco IP Communicator soft phone, B-ACD call routing, SIP phone support, plus integration with Cisco Unified Communications Managerand/or its affiliates. All rights reserved.





Cisco Unified Communications Manager Express

Benefits

Complete Business Communications systems: Voice, Video, Voicemail, Auto-Attendant, Desktop Call Control, IVR, XML, Gateway, Mobility

Lower Total Cost of Ownership (TCO) and improved employee productivity

Integrated Mobility and UCC Mobility keeps employees always connected

Integration with UC collaboration services to provide presence, IM, conferencing and VM

Flexible deployment models for teleworkers

Integration with multiple applications from different market verticals: retail, finance, manufacturing, healthcare



Unified CME/SRST IOS Release Version Summary

| CME/SRST Release Version | IOS Version |
|--------------------------|------------------------------------|
| CME/SRST 4.1 | 12.4(15)T(7 th Release) |
| CME/SRST 4.2 | 12.4(11)XW3 |
| CME/SRST 7.0 | 12.4(20)T |
| CME/SRST 7.1 | 15.0(1)M2 |
| CME/SRST 8.0 | 15.1.1T |
| CME/SRST 8.1 | 15.1.2T (July 2010) (newest) |
| CME /SRST 8.5 | 15.1.3T (November 2010) |

CME/SRST 7.1 with 15.0(1)M2 is the Golden Release - recommended release for most customers

CME 8.5 Update

Mobility, Capability enhancements, Improved End User Experience

New Capabilities/Endpoints

- Support for Cisco Unified IP 8900/9900 Series
- Forced Authorisation Code (FAC)
- Normalised +E.164 support for CME
- Improved deployment flexibility with support for SSL VPN client on Cisco Unified IP Phones (SCCP)
- Mobility enhancements with support for SIP flow around for FMC and single touch mobility
- Customisation of services and directories page, Programmable Line Keys, Button Layout Control
- ISDN overlap sending on PRI/BRI

Customer Benefits

- Improved Cisco IP Phone user interface
- Enhanced mobility capabilities with single touch mobility
- Improved usability of UC system with support for "+" dialing
- Reduced cost for remote teleworker solutions

Partner Benefits

New opportunities to position CME in markets requiring overlap sending capabilities



Cisco 8900/9900 Phone Portfolio

9971

9951

8961







Executive

Manager

Knowledge Professionals

Highlights

- Wi-Fi and Bluetooth
- 12 button Programmable Line/Feature Keys
- 5.6 inch VGA colour screen with touch screen
- Programmable soft label keys touch
- Native USB camera with video screen
- Multimedia applications: XML, Midlets

Highlights

- Bluetooth support
- 10 button Programmable Line/Feature Keys
- 5 inch VGA colour screen
- 4 Programmable soft keys
- Native USB Camera
- Multimedia applications: XML, Midlets

Highlights

- 10 button Programmable Line/Feature Keys
- 5 inch VGA colour screen
- 4 Programmable soft keys
- Multimedia applications: XML, Midlets

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8

CME VPN Phone with Cisco ASA

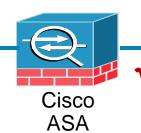
Low cost secure communications

- Secure communications anywhere connectivity is available
- Low cost remote teleworker solution without need for teleworker router









Unsecured WAN





- Features:
 - –SSL VPN connection between remote phone and Cisco ASA
 - -Supported phones: 7942G, 7945G, 7962G, 7965G and 7975G (SCCP only)

Fixed Mobile Convergence (FMC) with SIP

Flow Around

Reduced Telecommunications Cost





- SIP Media Flow Around removes need to hairpin PSTN to PSTN call
- SNR calls can be pulled back to desktop phone
- Benefits

Lowers cost of ownership by reducing costs on SIP trunks

Improves WAN link efficiency



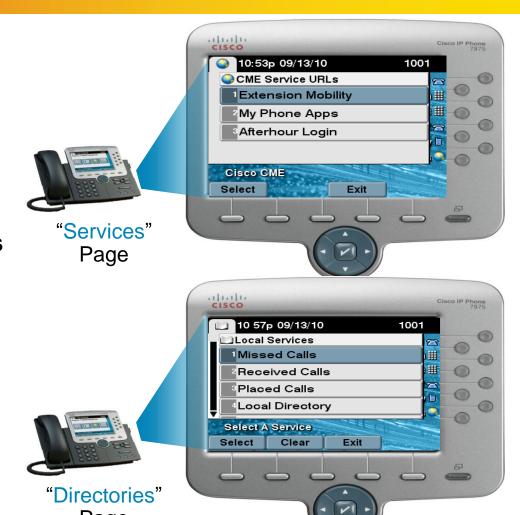
- 1 PSTN caller rings internal extension
- No answer, SNR service forwards call to PSTN
- 3 Media Flow Around on SIP Trunk
- 4 Desktop user has ability to pull call back

Forced Authorisation Code (FAC) Improved Accounting and Billing

- FAC regulates the type of calls a user makes
- Tracks calls to non toll-free, long distance and international numbers for accounting and billing purposes
- User is prompted to enter valid username/authorisation code before call is placed
- FAC authentication can be local or through Radius
- FAC data stored in CDR records
 - -CDR can be stored in router flash, external FTP server, or Syslog
- Applicable for multiple endpoints
 - -Applicable to SCCP, SIP phones, Analog phones

CME Services Page Pre-CME 8.5

- User has access to all services configured on system
- Accessible by clicking on "Services" button on phone
- "My Phone Apps" provides access to speed dial buttons, personal speed dial buttons, reset phone, Single Number Reach
- "Directories" buttons services access to call history and local directories



Customisable Services Page

CME 8.5

- Administrator can customise what services a phone provides
- Additional security for lobby phones by preventing access to services and directories page
- Can be configured on ephone or ephone-template
- **Benefits**

Improves security for phones in common areas with guest users



CME#conf t

Enter configuration commands, one per line. End with CNTL/Z.

CME(config)#ephone-template 1

CME(config-ephone-template)#exclude?

call-history call history in the missed/received/placed calls directory

local directory service directory

extension mobility service

myphoneapp my phone apps service

CME(config)#ephone 1

CME(config-ephone)#exclude?

call-history call history in the missed/received/placed calls directory local directory service directory

myphoneapp

My Phone Apps for BLF Speed Dia

User Interface

Benefits

Easier configuration for end users

Pre CME 8.5

Users used only IOS CLI to configure BLF Speed Dial

Features

Configure BLF Speed Dial from My Phone Apps

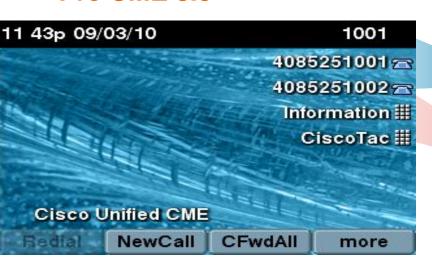
Add, Delete, and Change BLF Speed Dial configuration





Fixed Button Layout

Pre CME 8.5



Line Buttons

- Line extensions take up first N buttons
- Eg. If there are 2 extensions assigned to buttons, they take up buttons 1 and 2

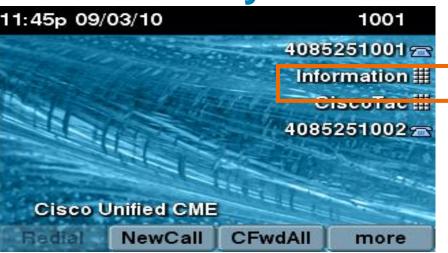
Speed Dials, Busy Lamp Field

 Remaining buttons can be configured as Speed Dials and Busy Lamp Field Speed Dials

Button Layout

- Fixed and order of buttons populated by CME
- -Speed Dials and Busy Lamp Field (BLF) buttons populate remaining buttons not used by extensions

Button Layout Control



SCCP Phone

ephone-template 1 button-layout 1,4 line button-layout 2-3 speed-dial

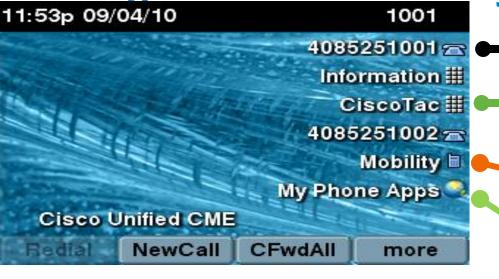
SIP Phone

voice register template 1 button-layout 1,4 line button-layout 2,3 speed-dial

Customisable Button Layout

- Customisable arrangement of Line Buttons, Speed Dials, Feature Keys and URL button
- -Applicable to both SCCP and SIP phones
- -Utilise ephone-template (SCCP) and voice register template (SIP) phones
- Apply ephone-template and voice register template to phones

Programmable Line Keys (PLK)



- Pre CME 8.5
 - Line keys configured only as line buttons, speed dials,
 BLF speed dials or privacy buttons
- PLK
 - –Allows line keys to be programmed as line buttons, speed-dials, BLF speed dials, features, and URL services

Line Buttons

Used for line extensions

Speed Dials

 Buttons configured as speed dials

Feature Keys

 Softkey functionality and generic night service on phone buttons

Service URL

 URLs such as EM, My Phone Apps, and other URLs on line keys

Cisco Unified CME 8.5 - IP Phone Portfolio

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Executive

Cisco Unified IP Phone 9951/9971 7975

Manager

Cisco Unified IP Phone 7962G/7965G

Business

Cisco Unified IP Phone 7942G / 7945G

Conference

Cisco Unified IP Conference Phone 7936, 7937G

Basic Cisco Unified IP **Phone**

6901/6911/6921/6941/ 6961

Multibutton

Cisco Unified IP Phone

7931G BRKUCC-2301

Video

Cisco Unified IP Phone 9951/9971/8961 **Cisco Unified Video**

Advantage Cisco Unified

Personal Communicator



Mobility

Cisco IP Communicator Cisco Unified

Personal Communicator

Cisco Unified Wireless IP

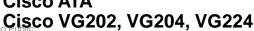
Phone 7921G/ 7925G/7925G-EX



Cisco Unified IP Phone Expansion Module 7915/7916



Cisco ATA







CME 8.6 Update (IOS 15.1(4)M)

Collaboration, Video & Mobility Enhancements
New Capabilities/Endpoints

- Support for Cisco Mobile 8.1 iphone and ipod touch softphone client
- SSL VPN client support for IOS DTLS VPN for SCCP phones
- Support for Call Forward Unregistered
- Clear directory entries for Calls
- Localisation Support for 7925, 69xx, 89xx & 99xx
 IP Phones
- Video and Camera Support for 8961/9951/9971 IP endpoints
- Extension Mobility support for SIP endpoints
- Increase Translation Rule from 15 to 100
- Bulk Registration Support for SIP Phones



Partner Benefits

 New opportunities to position Low cost video telephony with Cisco 8900/9900 video IP Phones with CUCME

 Position as a low cost remote teleworker solution with IOS DTLS SELVPN solution



Cisco Mobile 8.1Benefits of Cisco Mobile 8.1

Lower Mobility Costs

You can place and receive calls when at home, in hotels, or Wi-Fi hotspots

Reduce mobile minutes and save on roaming charges

Mobile Privacy

Cisco Mobile 8.1 turns your iPhone into an extension on your Cisco UC system

Keep mobile number private through office dialing

Enterprise Telephony Features

Cisco Mobile 8.1 offers enterprise-class telephony functions including transfer, conference, hold and resume, park and recover calls. © 2011 Cisco and/or its affiliates. All rights reserved.



CME Third-Party SIP Phone Support

- Cisco CME conforms with the IETF RFC 3261 standard for SIP
- CME versions 4.1 and later support SIP IP phones
- The Cisco Technology Developer Program (TDP) introduced testing support for Cisco Communications Manager with third-party SIP endpoints in 2006
- Cisco's recommendation is to utilise TDP or tekVizion service

http://www.tekvizionlabs.com/3rdpartyprograms/sip_verification/verified_products.php

 Cisco CME deployed with third-party SIP IP phones / endpoints is a supported solution by Cisco TAC

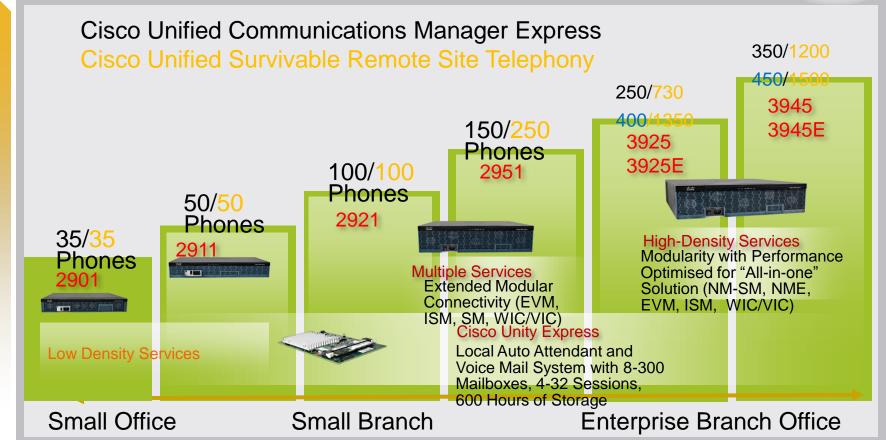




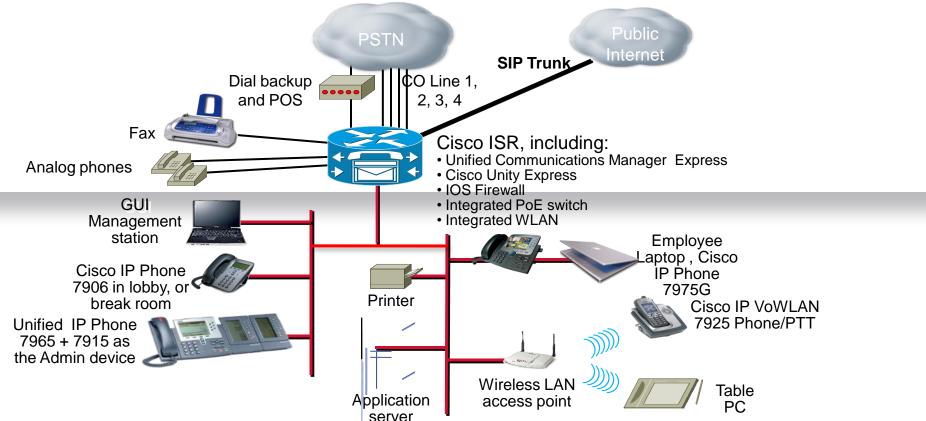


Cisco Integrated Services Router (ISR)G2 Portfolio for Unified Communications



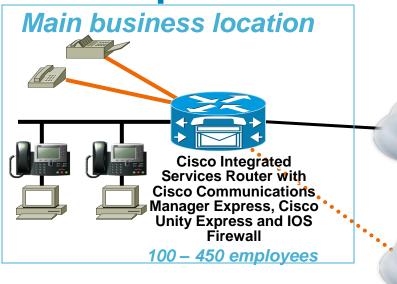


Cisco Unified Communications Manager Express: Standalone Office Deployment



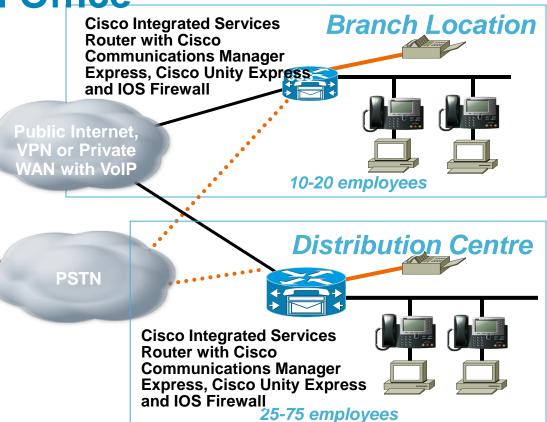
Unified Communications Express: Distributed Enterprise Branch Office

Cisco Public



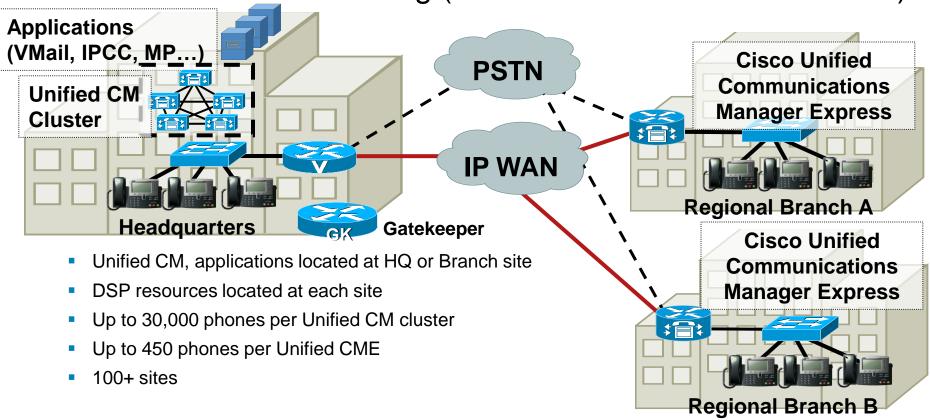
Networked Call Processing

- Networked Voice Messaging
- Extension dialing between sites
- Toll Savings
- Calling Name, Number
- Intelligent Call FWD, & Transfer. All rights reserved.

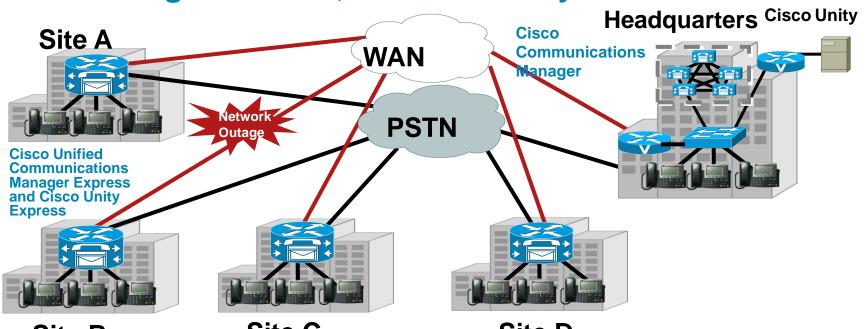


Deployment Models

Distributed Call Processing (Unified CM-Unified CME Model)



IP Telephony solutions combining CME & CCM: Delivering Multi-Site, Centralised Systems with Failover



Site B

Cisco Unified Communications Manager Express and Cisco Unity Express

Site C

Cisco Survivable Remote Site Telephony and Cisco Unity Express

Site D

Cisco Survivable Remote Site Telephony and Cisco Unity Express

Cisco Unity Express



Cisco Unity Express: The Basics

 Cisco Unity Express is a cost-effective voicemail and integrated messaging system with Automated Attendant and optional interactive voice response (IVR) for the branch office or small office



- The system supports Cisco Unified Communications Manager or UC Manager Express deployment scenarios
- The platform is a Cisco integrated services router: Industry-leading Cisco 1861, 2800, 2900, 3800 and 3900 Series.
- The message store is a choice of network module, advanced integration module, or the new service modules.
- The system offers up to 500 mailboxes, 32 ports and 600 hours of storage.
- The system supports 22 languages.
- Add the TimeCardView application for time card data management.
- Deploy in survivable mode similar to Survivable Remote Site Telephony.

Unity Express Features at a Glance

- Voice Mail
 - Integrated one box voice mail solution.
 - Accessible via multiple interfaces.
- Auto Attendant
 - Automatically handle incoming calls with powerful multi-level call flows.
 - Tuned for business hours, holidays and multiple languages.
- Interactive Voice Response
 - External database integration, E-mail and fax capabilities.
- TimeCardView
 - Track employee work hours for attendance and payroll.
 - Seamlessly integrates with Intuit QuickBooks.
- Live-record
 - Record calls with one button.



Web Voice Mail (CUE 8.5 onwards)



- Listen/Save/Delete/Compose Voice Mail messages/greetings through a Web GUI interface.
- Manage all mailbox settings.

Survivable Remote Site Telephony (SRST) Deployments



Remote Unified Communications using Cisco **Unified SRST** Access the same IP applications and Cisco Unified Communications Manager features as HQ WAN Centralised VM or distributed with CUE 1861 with Survivable telephony services in case of **SRST** WAN or CUCM failure **Small branch** Centralised management and IT support with up to 15 Same look and feel as HQ **PSTN** users Network-Centralised 3845 with **Cisco Unified** Outage Cisco® Unity® SRST Communications Manager = Medium branch with up to 730 users 3945E with **SRST** Large branch **Headquarters** with up to

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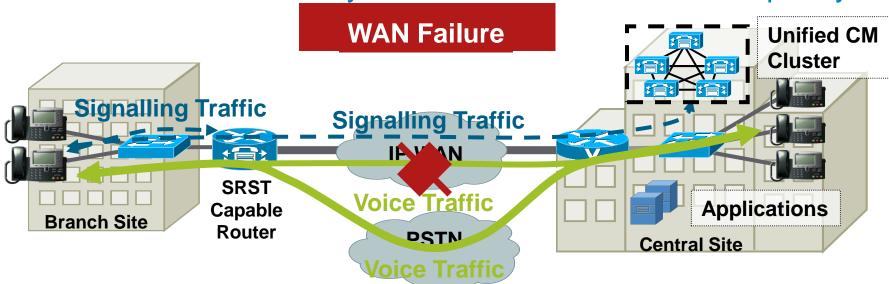
BRKUCC-230

1500 users

32

Unified Communications Infrastructure

Failover and Redundancy: Survivable Remote Site Telephony



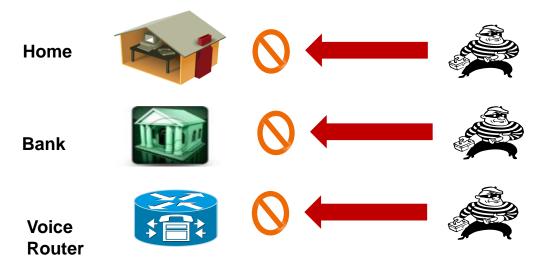
- IP Phones have SRST router IP as the last option in their CM GROUP configuration
- Support for both SIP and SCCP IP Phones
- With SRST, only a subset of features are available to the phones (DID, DOD, call hold, transfer, speed dial, caller ID, etc.)

Security on CUCME



Why is Voice Security Important?

- VoIP security is becoming critical concern for customers
 - -Legacy voice system migration to IP is rapidly accelerating
 - -Growing popularity of VoIP makes it target for attacks
 - -SIP adoption brings new vulnerabilities



Secure your system!

Background

- Increase rate of toll-fraud occurrence for customers with Cisco voice solutions
 - -Hackers scan unsecure boxes for open port 5060
 - -Free SIP Clients
- Methods of Toll-Fraud
 - Internal Internal employee misusing system to make fraudulent calls
 - External External parties misusing unsecured Cisco routers to make fraudulent calls
- External Toll-Fraud occurs because of improperly configured voice systems
 - Access-list not configured to prevent invalid inbound VoIP calls
 - -Misuse of Secondary dialtone

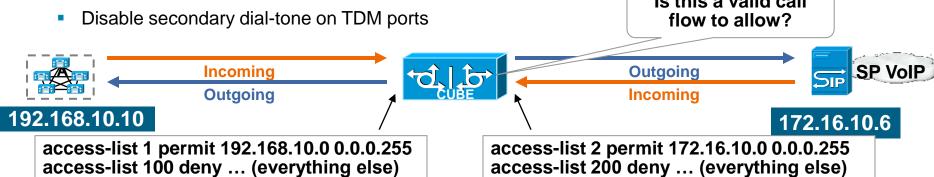
Toll Fraud—ACLs, Dial-Peers

- Use ACLs to allow/deny explicit sources of calls
- Apply explicit incoming and outgoing dial-peers to both CUBE interfaces to control the types and parameters of calls allowed on the network
- Use explicit destination-patterns on dial-peers (not .T) to block out disallowed off-net call destinations
- Use translation rules to ensure only valid calling/called numbers allowed
- Use Tcl/VXML scripts to do database lookups or additional checks to allow/deny call flows
- Change SIP port to something other than 5060
- Close unused H.323/SIP ports

Explicit inc and outg dial-peers

Is this a valid call flow to allow?

Explicit inc and outg dial-peers



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*New Default Behaviour in IOS 15.1.2T – FCS July 2010

- direct-inward-dial isdn enabled by default
- Feature is enabled to prevent the toll fraud for incoming ISDN calls. The called number of an incoming ISDN enbloc dialing call is used to match the outbound dial-peers

```
voice service pots
[no] direct-inward
```

- Two-stage dialing service blocked by default, no secondary dial-tone presented on inbound calls to FXO port
- Secondary-dialtone is normally initiated when an Analog or Digital FXO port goes offhook and the Private Line Automatic Ringdown (PLAR) is disabled or not configured

```
voice-port <fxo-port>
     [no] secondary dialtone
```

* New behaviour can be disabled to revert back to old behaviou

Cisco Unified Communications Manager

- CUCM only accepts calls from known endpoints
- Ends are added as SIP proxies, MGCP Gateways, H.323 gateways with IP addresses into CUCM database
- Upon receiving inbound call, CUCM checks in database for IP address
 - If IP address is known, then process call
 - ➤ Otherwise, ignore and drop call

| CUCM Database | |
|---------------|---------------|
| 10.10.10.1 | MGCP Gateway |
| 11.11.11.1 | H.323 Gateway |

















Cisco Public





12.12.12.1

- IP address trusted authentication is enabled by default
- Cisco voice router maintains an IP address trusted list* to validate the remote IP addresses of incoming VoIP calls

 With IP address trusted list enabled, voice router accepts incoming VoIP (SIP/H.323) calls only if the remote IP address of an incoming VoIP call is successfully validated from the system IP address trusted list.

Cisco3845#show ip address trusted list IP Address Trusted Authentication Administration State: UP Operation State: UP

IP Address Trusted Call Block Cause: call-reject (21)

VoIP Dial-peer IPv4 Session Targets: Peer Tag Oper State Session Target

Can disable IP
Trusted List

no ip address trusted

IP Address Trusted Authentication command lines

```
Router# show ip address trusted list
IP Address Trusted Authentication
 Administration State: UP
 Operation State:
                                 UP
IP Address Trusted Call Block Cause: call-reject (21)
VoIP Dial-peer IPv4 Session Targets:
Peer Tag Oper State Session Target
3000
                       UP
                                   Administration State
                                                                        Trigger Conditions
                                                       Operational State
1001
                       UP
                                                            Down
                                                                        "no ip address trusted authenticate" is defined
                                          Down
IP Address Trusted List
                                           Up
                                                            Down
                                                                        "gateway" is defined and a VoIP dial-peer with "ras" as a
                                                                        session target is in "UP" operational status
                                           Up
                                                                        "ip address trusted authenticate" is defined and either
                                                             Up
                                                                        "gateway" is not defined or no VoIP dial-peer with "ras" as
                                                                        session target is in "UP" operational status
  BRKUCC-2301
                     © 2011 Cisco and/or its
```

IP Address Trusted Authentication Debugging

- New internal error code (IEC) 1.1.228.3.31.0 is logged when an incoming VoIP call is blocked due to IP address trusted authentication.
- Following records support IEC error report:ing:
 - -VSAs in RADIUS accounting stop record
 - [Vendor 9/1] cisco-avpair = "internal-error-code=1.1.228.3.31.0"
 - -Call history record

router#show call history voice | i InternalErrorCode

- InternalErrorCode=1.1.128.3.31.0
- Dial Control MIB (cCallHistorylecTable object of CISCO-DIAL-CONTROL-MIB)
 - getmany 10.7.102.32 cCallHistorylec
 - cCallHistorylec.5.1 = 1.1.128.3.31.0
- -Syslog message (once "voice iec syslog" is enabled)

*Aug 14 19:54:32.507: %VOICE_IEC-3-GW: Application Framework Core: Internal Error (Toll fraud call rejected): IEC=1.1.228.3.31.0 on callID GUID=AE5066C5883E11DE8026A96657501A09

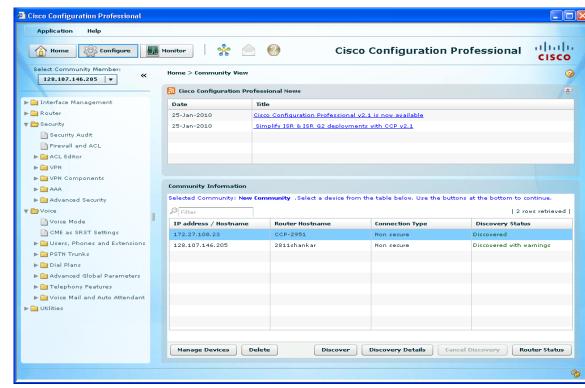
Configuration and Management Tools for CUCME

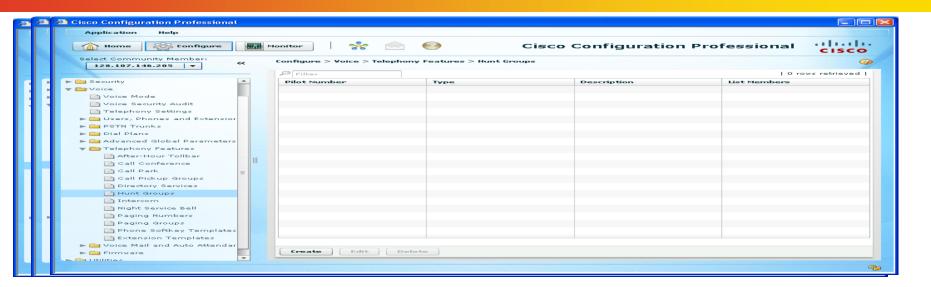


Cisco Configuration Professional (CCP)

Intuitive device management GUI for easily configuring access routers

- Windows Based Application
- Latest version: 2.3
- GUI based
- ➤ Device Management tool for access routers (ISR and ISR-G2)
- ➤ Unified GUI
 - Security, Voice
 - > License Management
 - > Appl Module Management
- Valuable productivity enhancing tool for network administrators and channel partners for deploying routers with increased
 - www.cisco.com/go/ciscocp





CME Mode

Creation of Users, Phones, Extensions and Mailboxes

- Analog and Digital Tunks
- Dial Plans
- Telephony Features: Paging groups, Night-Service, Intercom, After-hours, Hunt Groups, Call Park, Pickup groups, Conferencing, Single Number Reach

Cisco Public

Phone Firmware Support, IOS upgrade, MOH file management

Cisco Configuration Engine

Scalable, Secure Solution to *Automate* Distribution of Cisco[®] IOS[®] Software Configuration and Images to Cisco Routers and Switches

- Cisco Configuration Engine
 - -Day 0 operations
 - Highly efficient and scalable initial deployment
 - -Day-2+ operations
 - Bulk Cisco IOS Software image upgrades
 - Bulk configuration changes
 - -Template-based configurations
 - -Web-based GUI
 - -Web services API
 - -Secure access over SSL
 - Supports RedHat Linux, Solaris and Vmware

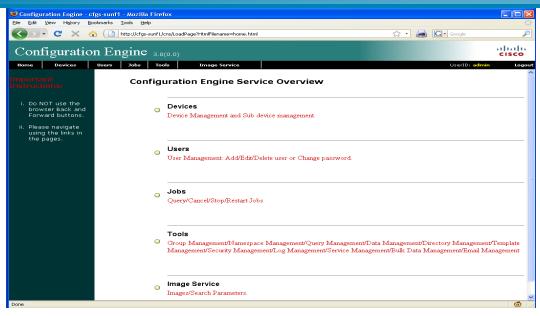


Image Service

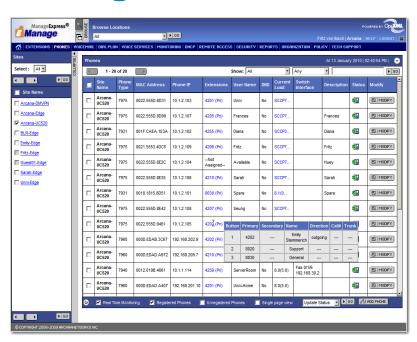




ManageExpress® iManage 7.1 Enterprise Overview

What is ManageExpress iManage?

- Secure graphical network management tool for Cisco ISR/ISR G2s, UC500s, and IADs
- Centralised management of voice, data, security and remote access technologies
- Simplifies moves, adds, changes, across the enterprise
- Enforces consistency and simplifies tasks reducing operational costs
- Provisioning, Monitoring, Reporting, and Operational views
- Delivers ready to consume business metrics



Email: cs-arcana-solutionsplus@external.cisco.com

ArcanaNetworks ManageExpress

Business Challenges ArcanaNetworks Lack of centralised management tool for Arcana offers centralised management multi-site deployments tool with easy to use management interface Store/office manager needs information **Arcana Business Voice Portal provides** regarding store operations visibility into store operations Call detail records (CDR) for business CDR for billing and tracking purposes tracking Lack of effective management tool Arcana management tool lowers TCO increases cost for customers single admin can manage all systems

ArcanaNetworks offers easy to use centralised management solution that lowers management cost for customers

ArcanaNetworks ManageExpress iManage 8.0

- Centralised Management
- Bulk changes for moh files, changing AA prompts, business hours
- Provisioning Day 2 requests such as adding a new phone, resetting a voicemail password, changing security settings, etc using easy to use templates
- Monitoring real time Real time monitoring information from Syslog, IP SLA probes, Netflow, and SNMP
- Reporting Detailed audit trails provides an insight into the who, what, where, and when actions were performed, including the actual commands that were issued to the device.
- Operation to expose critical business intelligence information directly to the business user.



Utilise ArcanaNetworks ManageExpress to compete against Shoretel, Avaya

Q & A



Complete Your Online Session Evaluation

Complete your session evaluation:

- Directly from your mobile device by visiting <u>www.ciscoliveaustralia.com/mobile</u> and login by entering your badge ID (located on the front of your badge)
- Visit one of the Cisco Live internet stations located throughout the venue
- Open a browser on your own computer to access the Cisco Live onsite portal



References and Useful Links

- Communications Manager Express:
 - -www.cisco.com/go/ccme
- Cisco Communications Manager Express Data Sheet
 - -http://www.cisco.com/en/US/products/sw/voicesw/ps4625/products_data_sh_ets_list.html
- Cisco Communications Manager Express Compatibility matrix
 - -http://www.cisco.com/en/US/products/sw/voicesw/ps4625/products_device_s upport_tables_list.html
- Cisco Communications Manager Express External Wiki
 - https://www.myciscocommunity.com/docs/DOC-2098
- Cisco Communications Manager Express Toll Fraud Prevention Application Note

References and Useful Links

- Communications Manager Express Internal Wiki
 - -http://zed.cisco.com/confluence/display/VOICE/CME
- Communications Manager Express on Facebook
 - -http://www.facebook.com/home.php?#!/pages/Cisco-Communications-Manager-Express/103167066393948?ref=ts
- Arcana Networks ManageExpress iManage
 - -http://www.arcananetworks.com/html/imanage.htm
- CME ordering guide

-http://www.cisco.com/web/partners/downloads/partner/WWChannels/technol ogy/ipc/downloads/ordering guide unified cme unity exp callconn.pdf

Cisco Unity Express Pricing

 See the Cisco Unity Express Ordering Guide for the latest information

-http://www.cisco.com/web/partners/downloads/partner/WWChannels/technology/ipc/downloads/oguc__v7-1_ue_v7_1_a_c.pdf

Send questions about pricing and ordering to

-access-ccme-cue@cisco.com

References and Useful Links

- Cisco Unity Express wiki (Internal)
 - -http://zed.cisco.com/confluence/display/VOICE/CUE
- Cisco Unity Express FAQ and Troubleshooting (Internal)
 - -http://zed.cisco.com/confluence/display/VOICE/CUE-FAQ
- Cisco Unity Express on cisco.com
 - -http://www.cisco.com/en/US/products/sw/voicesw/ps5520/index.html
- Cisco Unity Express Documentation release by release listing
 - -http://www.cisco.com/en/US/products/sw/voicesw/ps5520/products documentation_roadmap09186a00803f3e19.html
- Cisco Unity Express compatibility matrix

Mailer Aliases

- Send all questions about features and ordering to <u>access-ccme-cue@cisco.com</u> - this is an alias where customers and partners can send emails to the Marketing team
- Support questions for custom scripts on Unity Express can be sent to <u>ask-cue-editor@external.cisco.com</u> this can be used by partners and customers as well

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